

In the claims:

Please substitute the following full listing of claims for the claims as originally filed or most recently amended.

1. (Currently Amended) A system for collaborative engineering, said system comprising:

an open architecture module that receives and provides data processed in portions of said system in its native format;

an autonomous agent module for setting and warehousing business rules for operation of said system, setting and responding to trigger criteria established by owners or users of said data, and gathering the data provided by the open architecture module;

a workflow manager module that polices and enforces the business rules in regard to data routing so that individual departments, organizations, and individuals are notified that the data was provided by the open architecture module and performs specific tasks in an order in accordance with the business rules set in the autonomous agent module, said specific tasks including storage of said data gathered by said autonomous agent module and, upon said storage, delivering data objects derived by lexical analysis from dividing said data gathered by said autonomous agent module into document strings and delivering said data objects to selected ones of said individual departments, organizations and individuals in accordance with said business rules based on results of semantic parsing of said data objects and ~~said business rules~~;

an infrastructure connectivity module that provides a notification pathway for the workflow manager to route data to said selected ones of said individual

departments, organizations and individuals by establishing and maintaining communication links between the individuals, departments, and organizations to allow collaboration;

a report engine module for extracting, formatting, and delivering data routed by the workflow manager module;

a root cause analyzer module for analyzing data routed by the workflow manager module, setting an alarm level to detect unwanted occurrences in the data, setting exclusions for the detection of unwanted data, determining the cause of the unwanted occurrence, and removing the cause of the unwanted occurrence;

a data mining module that analyzes data routed by the workflow manager module to a database using tools and applications that look for trends and anomalies in the data; and

a user interface for accessing the open architecture module, the autonomous agent module, the workflow manager module, the infrastructure connectivity module, the report engine module, the root cause analyzer module, and the data mining module.

said open architecture module, said autonomous agent module, said workflow manager module, said infrastructure connectivity module, said report engine module, said root cause analyzer module and said data mining module being implemented on one or more programmed computers, application-specific integrated circuits, networks component circuits or a combination thereof.

2. (Previously Presented) The system for collaborative engineering of claim 1, wherein the autonomous agent module analyzes the data for compiling trend information regarding the data.

3. (Original) The system for collaborative engineering of claim 2, wherein the autonomous agent module executes a predetermined action if the trend information meets a trigger criterion.

4. (Original) The system for collaborative engineering of claim 3, wherein the predetermined action is to notify a designated user that the trend information met the trigger criteria.

5. (Original) The system for collaborative engineering of claim 3, wherein the predetermined action is to execute a change affecting at least one of the group consisting of: the open architecture module, the autonomous agent module, the workflow module, the infrastructure connectivity module, the report engine module, the root cause analyzer module and the data mining module.

6. (Currently Amended) A system for collaborative engineering, said system comprising:

a first data module that receives and provides data processed in portions of said system in its native format;

a second data module that sets and warehouses business rules for operation of said system, sets and responds to trigger criteria established by owners or users of said data, and gathers the data provided by the first module; and

a third module that polices and enforces the business rules in routing data so that individual departments, organizations, and individuals are notified that the data was provided by the first module, the third module performing specific tasks in an order in

accordance with the business rules set in the second module, said specific tasks including storage of said data provided by said first agent module and, upon said storage, delivering data objects derived by lexical analysis ~~from dividing~~ said data provided by said first module ~~into document strings and delivering said data objects~~ to selected ones of said individual departments, organizations and individuals in accordance with said business rules based on semantic parsing of said data objects ~~and said business rules.~~

said first module, said second module and said third module being implemented on one or more programmed computers, application-specific integrated circuits, networks component circuits or a combination thereof.

7. (Previously Presented) The system for collaborative engineering of claim 6, wherein the second data module further comprises:

a first sub-module that analyzes the data for compiling trend information regarding the data.

8. (Original) The system for collaborative engineering of claim 7, wherein the second data module executes a predetermined action if the trend information meets a trigger criterion.

9. (Original) The system for collaborative engineering of claim 8, wherein the predetermined action is to notify a designated user that the trend information met the trigger criteria.

10. (Currently Amended) The system for collaborative engineering of claim 8, wherein the predetermined action is to execute a change affecting at least one of the group consisting of: the ~~open architecture~~ first module, the ~~autonomous agent~~ second module, and the ~~workflow~~ third module, ~~the infrastructure connectivity module, the report engine module, the root cause analyzer module and the data mining module.~~

11. - 29. (Canceled)

30. (Currently Amended) A workstation for administering collaborative systems engineering, the workstation comprising:

an open architecture module that receives and provides data processed in portions of an enterprise system in its native format;

an autonomous agent module for setting and warehousing business rules for operation of said system, setting and responding to trigger criteria established by owners or users of said data, and gathering the data provided by the open architecture module;

a workflow manager module that polices and enforces the business rules in regard to data routing so that individual departments, organizations, and individuals are notified that the data was provided by the open architecture module and performs specific tasks in an order in accordance with the business rules set in the autonomous agent module, said specific tasks including storage of said data gathered by said autonomous agent module and, upon said storage, delivering data objects derived by lexical analysis ~~from~~ dividing said data gathered by said autonomous agent module into document strings ~~and delivering said data objects to selected ones~~

of said individual departments, organizations and individuals in accordance with said business rules based on results of semantic parsing of said data objects and ~~said business rules~~;

an infrastructure connectivity module that provides a notification pathway for the workflow manager to route data to said selected ones of said individual departments, organizations and individuals by establishing and maintaining communication links between the individuals, departments, and organizations to allow collaboration;

a report engine module for extracting, formatting, and delivering data routed by the workflow manager module;

a root cause analyzer module for analyzing data routed by the workflow manager module, setting an alarm level to detect unwanted occurrences in the data, setting exclusions for the detection of unwanted data, determining the cause of the unwanted occurrence, and removing the cause of the unwanted occurrence;

a data mining module for analyzing data routed by the workflow manager module to a database using tools and applications that look for trends and anomalies in the data; and

a user interface to access the open architecture module, the autonomous agent module, the workflow manager module, the infrastructure connectivity module, the report engine module, the root cause analyzer module, and the data mining module,

said open architecture module, said autonomous agent module, said workflow manager module, said infrastructure connectivity module, said report engine module, said root cause analyzer module and said data mining module being implemented on one or more programmed

computers, application-specific integrated circuits, networks component circuits or a combination thereof.

31. (Previously Presented) The workstation of claim 30, wherein the autonomous agent module analyzes the data for compiling trend information regarding the data.

32. (Original) The workstation of claim 31, wherein the autonomous agent module executes a predetermined action if the trend information meets a trigger criterion.

33. (Original) The workstation of claim 32, wherein the predetermined action is to notify a designated user that the trend information met the trigger criteria.

34. (Original) The workstation of claim 32, wherein the predetermined action is to execute a change affecting at least one of the group consisting of: open architecture module, the autonomous agent module, the workflow module, the infrastructure connectivity module, the report engine module, the root cause analyzer module and the data mining module.

35. (Currently Amended) A workstation for administering collaborative systems engineering, the workstation comprising:

a first data module that provides data processed in a portion of an enterprise system in its native format;

a second data module that sets and warehouses business rules for operation of the system, sets and responds to trigger criteria, and gathers the data provided by the first module; and

a third module that polices and enforces the business rules in routing data so that individual

departments, organizations, and individuals are notified that the data was provided by the first module, the third module performing specific tasks in an order in accordance with the business rules set in the second module, said specific tasks including storage of said data gathered by said first module and, upon said storage, delivering data objects derived by lexical analysis from dividing said data provided by said first module into document strings and delivering said data objects to selected ones of said individual departments, organizations and individuals in accordance with said business rules based on semantic parsing of said data objects ~~and said business rules.~~

said first module, said second module and said third module being implemented in said workstation by programming, application-specific integrated circuits, a network of component circuits or a combination thereof.

36. (Previously Presented) The workstation of claim 35, wherein the second data module further comprises:

a first sub-module that analyzes the data for compiling trend information regarding the data.

37. (Original) The workstation of claim 36, wherein the second module executes a predetermined action if the trend information meets a trigger criterion.

38. (Original) The workstation of claim 37, wherein the predetermined action is to notify a designated user that the trend information met the trigger criteria.

39. (Currently Amended) The workstation of claim 37, wherein the predetermined action is to execute a change affecting at least one of the group consisting of: open

architecture the first module, the ~~autonomous agent~~  
~~second~~ module, ~~the workflow and the third~~ module, the  
infrastructure connectivity module, the report engine  
module, ~~the root cause analyzer module and the data~~  
mining module.